

PRODUCTS BASED ON ROCK (STONE) WOOL**STATEMENT OF HAZARDOUS NATURE:**

This product is *NOT* classified as hazardous according to the criteria of the National Occupational Health and Safety Commission (NOHSC).

1. GENERAL

- 1.1 Manufacturer's Name:** **Roxul Asia Sdn Bhd**
175 A & B Kawasan Perindustrian Uhasa
Jalan Lingkungan
75450 Melaka
MALAYSIA
(part of the Rockwool International Group)
- 1.2 Australian Agent:** **Australasian Insulation Supplies Pty Ltd**
56 Cutler Road
Jandakot WA 6164
- 1.3 Trade and Synonyms:** **Generic Name:** Stonewool
Trade Name: Rockwool®, Roxul®, and Lapinus®
- 1.4 Manufacturers' Product Code:** See attached list as Annex A
- 1.5 UN Number:** None allocated
- 1.6 Dangerous Goods Class and Subsidiary Risk:** None allocated
- 1.7 Hazchem Code:** None allocated
- 1.8 Poisons Schedule Number:** None allocated
- 1.9 Use:** Thermal and acoustic insulation, including fire protection and energy conservation. Used in homes, public and commercial buildings, warehouses, industrial and petrochemical plants, ships, public transport, power stations and whitegoods.

2. COMPOSITION INFORMATION ON INGREDIENTS

| 2.1 Chemical Name | CAS Number | Proportion |
|---|-------------------|-------------------|
| Ca-Mg-Al-silicate fiberised bio-soluble rock ⁽¹⁾ | - | >96% |
| Bakelite, a synthetic thermosetting resin | - | < 3% |
| Refined mineral oil | - | <1% |

3. PHYSICAL AND CHEMICAL PROPERTIES

- 3.1 Appearance:** Inert mineral wool mat of compressed fibres resembling wool. It is supplied in different shapes and sizes wrapped in plastic. It may be rigid or flexible; and facings such as aluminum foil, calico, wire, and synthetic tissues applied to meet specific purposes.
- 3.1.1 Odour:** Not Applicable
- 3.1.2 pH (a 1000g/H₂O, 25°C):** 7-8 (DIN 54275)
- 3.1.3 Boiling point:** Not Applicable
- 3.1.4 Melting point:** above 1000°C
- 3.1.5 Flash point:** Not Applicable
- 3.1.6 Flammability:** Not Applicable
- 3.1.7 Autoflammability:** Non-flammable (DIN 4102)
- 3.1.8 Explosive properties:** Not Applicable
- 3.1.9 Oxidizing properties:** Not Applicable
- 3.1.10 Vapor pressure:** Not Applicable
- 3.1.11 Product density:** 30 – 200 kg/m³
- 3.1.12 Solubility:** Not Applicable
- 3.1.13 Partition coefficient:** Not Applicable
- 3.1.14 Other data:** Roxul® Stonewool consists of greater than 85% fibres and less than 15% unfiberised particles (shot) when measured to ASTM C612-93. Fibres are made to a target diameter of 5 microns, being non-respirable fibres. However a small percentage of fibres may fall outside this range.
- 3.1.15 Other properties:** The fibres and particles are amorphous (non-crystalline). The resin and refined mineral oils bond the fibres and particles together and minimise the release of dusts. The cured resin is stable and will remain intact for the life of the product under normal atmospheric conditions.

4. HEALTH HAZARD INFORMATION

- 4.1** Stonewool may cause a mechanical reaction to skin in some people, i.e. itching. High dust levels may cause a reaction to the throat and eyes. Stonewool insulation, once installed, is not a source of dust and does not cause any health effects. Handling, installing or removing the product may result in some stonewool dust, but concurrent exposure to other construction materials and general dusts will also be likely. Users of this product are therefore advised to consider all sources of airborne dust when handling, installing or removing rock(stone)wool insulations.

Health Effects

4.2 Acute – (Short Term)

Possible skin reaction due to exposure to coarse dusts (fibres and particulates greater than 5.0 micron diameter) with some people prone to skin sensitivity.

4.3 Swallowed

Unlikely under normal conditions of use but may result in a reaction of the lips and mouth if sufficient quantity is ingested.

4.4 Eye

Rock (stone) wool dust, if it gets into the eyes may cause discomfort resulting in watering and redness.

4.5 Skin

Handling rock(stone)wool and its dust may cause a reaction of the skin resulting in itching and occasionally a red rash. The rash is not an allergic response and usually disappears quickly.

4.6 Inhaled

The dust, if inhaled in sufficient quantities may cause discomfort of the nose and throat, especially in those suffering from upper respiratory or chest complaints such as hay fever, asthma or bronchitis.

4.7 Chronic (Long Term)

There are no known long term health effects. Research has shown that any stone wool particulates inhaled into the lungs dissolve over time in body fluids in the same way as other ambient dusts, and are then cleared from the lungs.

5. FIRST AID MEASURES

5.1 Swallowed

Rinse the lips and mouth with water, give water to drink and seek medical attention.

5.2 Eye

If an eye reaction occurs, do not rub eyes. Flush with flowing water for at least 15 minutes and if symptoms/irritation persists, seek medical attention.

5.3 Skin

If skin reaction occurs, do not rub or scratch. Rinse under running water prior to washing with mild soap and water and if itching persists, seek medical attention.

5.4 Inhaled

Remove to fresh air.

5.5 Advice to Doctor

Treat symptomatically.

6. PRECAUTIONS FOR USE

6.1 Exposure Standards:

None allocated for this product. Rock(stone)wool insulation is not subject to specific state occupational health and safety regulations.

6.2 Engineering Controls:

Work practices should minimise the release of, and exposure to, fibres and/or dust. Hand tools that generate the least amount of dust should be used. If power tools are used, they should be equipped with appropriate dust collection systems. Work areas, if dusty, should be cleaned by simple hand vacuuming.

6.3 Ventilation:

During most applications and installation of this product, no special ventilation is required. However, if a very dusty work environment

exists, normally due to other construction material dusts then local exhaust ventilation should be provided if the general dust level is in excess of 2 mg/m³ (TWA) of inspirable dust.

6.4 Personal Protection:

6.4.1 Skin Protection: Loose comfortable clothing should be worn. It is desirable to avoid direct skin contact by wearing long sleeved shirts and long trousers, a cap or hat, and standard duty gloves conforming to Australian Standard AS 2161 (Industrial safety gloves and mittens).

People working with this product should wash their skin with soap and water at the end of the work shift and at all work breaks.

6.4.2 Eye Protection: Ventilated, non-fogging dust resistant goggles conforming to Australian and New Zealand Standards AS/NZS 1336 (Recommended practices for occupational eye protection) should be worn when handling rock(stone)wool overhead.

6.4.3 Respiratory Protection: An approved particulate respirator conforming to Australian and New Zealand Standards AS/NZS 1715 (Selection, use and maintenance of respiratory protective devices) and 1716 (Respiratory protective devices) should be worn whenever personally desired or where it is suspected that dust levels may exceed the National Standard for inspirable dust (use historical monitoring results as a guide for specific applications) or.

6.4.4 Personal Hygiene: Washing facilities should be available on site to wash the skin and to treat any dust in the eyes.

6.5 Flammability: Rock(stone)wool is non-combustible and non-flammable, but the plastic wrapping, resin binder, and some facings (e.g. vinyl tissue) may decompose, smoulder or burn in a fire or when heated above 300 degrees Celsius.

7. SAFE HANDLING INFORMATION

7.1 Storage and Transport: This product should be stored in its factory packaging until it is used. Unpack material at application site to avoid unnecessary handling on product.

This product is not regulated as a dangerous good. No special transport requirements are necessary.

7.2 Spills and Disposal: Any spilt material due to accidents or off-cuts from insulation should be cleaned up, and disposed of in accordance with local authority guidelines.

7.3 Fire/explosion Hazard: Not applicable because rock(stone)wool retards the spread of fire.

7.4 Further Information: According to World Health Organization International Agency for Research on Cancer, Rock(stone)wool is classified as Group 3, "not classifiable as to its carcinogenicity to humans". Refer IARC Working Group in Man-Made Vitreous Fibres – Volume 81 of the IARC Monographs, Lyon 9-16, October 2001.

Note (1). Does not cause tumours in long term animal inhalation studies (McConnell, E.E. Kamstrup, O., Musselman, R., Hesterberg, T.W., Chevalier, J., Miller, W.C., and Thevenaz, P. 1994. Chronic inhalation study of size-separated rock and slag wool insulation fibers in Fischer 344/N Rats *Inhal. Toxicol.* 6:571-614)

8. CONTACT POINT

For further information on this product please contact Rockwool International Group's agent in Australia:

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ANNEX A – TO MSDS DATED APRIL 2012

PRODUCT CODES AND NAMES FOR ROXUL[®], LAPINUS[®] AND ROCKWOOL[®]

MATERIALS MARKETED IN AUSTRALIA

| | |
|------------------------------|--|
| Multi Purpose Slab (MPS) | 100, 200, 300, 400, 450.S, 500, 620, 620.S, 640, 650 |
| Slab Industrial | 100, 80, 60 |
| Foil-Faced Blanket | 100, 80, 60 |
| Boiler Slab | 590 |
| Marine Fire Batt | 100 |
| Acoustical Fire Slab | AFS |
| Wired Mat | 160, 164, 159, 168 |
| WM | 100, 80, 60 |
| Rox-Skin Blanket | 100, 200, 300, 400,500 |
| Rox-foil Blanket | 400 |
| Con-Rox | L 10, 12, 15; |
| Pipe Block | 232 |
| Pipe Insulation | 150, 650, 850, 851, C11 |
| Party Wall Fire Stop | 1100 |
| Fire Damper Strip | |
| Firepro | Duct |
| Conlit | 756 |
| Roxul Hardrock | 60, 80 |
| Roxul Rockpipe | |
| Loose Fill | 000, 001.512 |
| Cavity Wall Insulation (CWI) | ES1, ES2 |